

## **SCHOTTKY DIODE MODULE TYPE 240A**

## **Features**

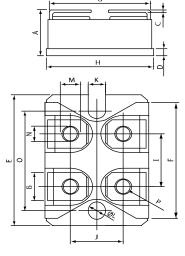
**High Surge Capability** Type 120 V VRRM Isolation Type Package Electrically Isolation base plate

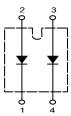


# **Maximum Ratings**

Operating Temperature : -40 °C to +150 °C Storage Temperature : -40 °C to +150 °C

Part Number Maximum Recurrent Peak Reverse Voltage		Maximum RMS Voltage	Maximum DC Blocking Voltage
GSXD120A012S1-D3 120V		84V	120V





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### MXA 12.70 13.20 .500 .519 .307 322 7.80 8.20 .029 .033 .082 2.10 .077 1.487 1.502 37.80 38.20 1.250 1.258 31.75 32.00 G .931 .956 23.65 24.30 .996 1.007 25.30 25.60 .586 .594 14.90 15.10 .492 .516 12.50 13.10 4.30 Κ .161 .169 4.10 4.10 .161 .169 4.30 М .181 .191 4.60 4.95 .165 .177

1.192

30.10

30.30

0

1.184

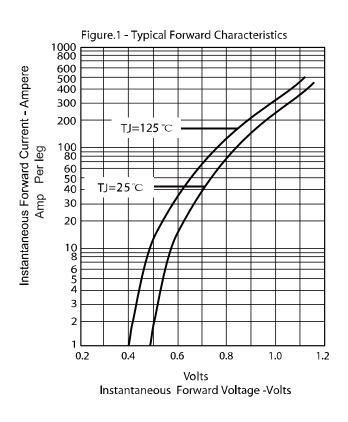
## Electrical Characteristics @ 25 °C Unless Otherwise Specified.

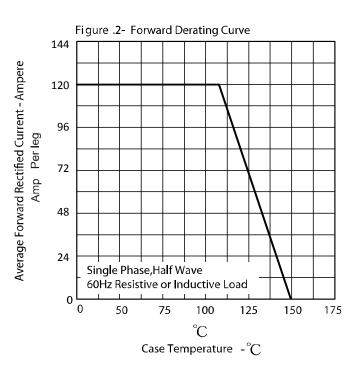
Average Forward Current (Per pkg)	lF(AV)	240A	Tc=110℃
Peak Forward Surge Current (Per leg)	lгsм	1500A	8.3 ms,half sine
Maximum Instantaneous Forward Voltage (Per leg)	VF	0.80V 0.88V	IFм=120A;ТJ=125℃ IFм=120A;ТJ=25℃
Maximum NOTE(1) Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	lR	3 mA 10 mA 30 mA	TJ=25°C TJ=100°C TJ=150°C
Isolation Voltage	Viso	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per leg)	Rθjc	0.38℃/W	

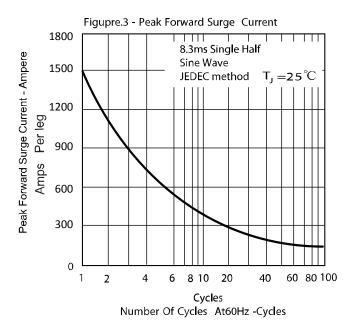
NOTE:

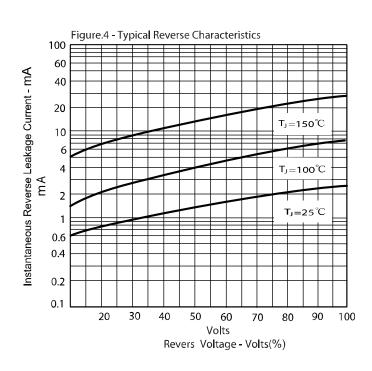
(1) Pulse Test: Pulse Width 300  $\mu$  sec, Duty<2%













# Data Sheet GSXD120A012S1-D3

### **Revision History**

Date	Revision	Notes
8/10/2014	1.0	Initial release
01/03/2020	1.1	Applied company name change

### Notes

### **RoHS Compliance**

The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU Directive 2011/65/EC (RoHS2), as implemented March, 2013. RoHS Declarations for this product can be obtained from the Product Documentation sections of www.SemiQ.com.

## **REACh Compliance**

REACh substances of high concern (SVHC) information is available for this product. Since the European Chemicals Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, please contact our office at SemiQ Headquarters in Lake Forest, California to insure you get the most up-to-date REACh SVHC Declaration. REACh banned substance information (REACh Article 67) is also available upon request.

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